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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNET DOCKET NO.	CONFIRMATION NO.
10/623,302	07/18/2003	Sunita Satyapal	9945B	3435
	7590 07/31/2007		EXAM	IINER
WILLIAM W. HABELT CARRIER CORPORATION			BOS, STEVEN J	
CARRIER PAF P.O. BOX 4800			ART UNIT	PAPER NUMBER
SYRACUSE, N			1754	
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			07/31/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•		Application No.	Applicant(s)			
Office Action Summary		10/623,302	SATYAPAL ET AL.			
		Examiner	Art Unit			
		Steven.Bos	1754			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tim  11 apply and will expire SIX (6) MONTHS from cause the application to become ABANDONED	N. nely filed the mailing date of this communication. O (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 16 Ma	ay 2007.				
2a)⊠	a) This action is <b>FINAL</b> . 2b) This action is non-final.					
3) 🗌	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4) ☐ Claim(s) is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) ☐ Claim(s) is/are allowed.  6) ☒ Claim(s) <u>1-3</u> is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers					
10) 🗌	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the dependent drawing sheet(s) including the correction to the oath or declaration is objected to by the Example 1.	epted or b) objected to by the E Irawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
2) Notice 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary ( Paper No(s)/Mail Dai 5) Notice of Informal Pa 6) Other:	te			

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The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 1 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

In claim 1, "contaminated" is new matter. It appears that – poisoned – was intended.

In claim 1, "removing the phosphate-type species from the spent catalyst composition" is new matter.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, "phosphate-type species" is indefinite as to what the metes and bounds of this language are. See MPEP 2173.05(b)E.

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lapidus '268 or Obayashi '292 or Japan 10-202106 or Japan 58-219942.

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Each of Lapidus, Obayashi, JP '106 and JP '942 teaches the regeneration of a spent catalyst by washing with water. See cols. 2,3 of Lapidus; the examples of Obayashi; and the abstract of each Japanese reference. The taught spent catalysts would appear to be suitable for decomposing organophosphonate compounds because they are the same metal oxides or activated carbon as instantly claimed.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over D'Aniello, Jr. '911 or McArthur '471.

Each of D'Aniello, Jr. and McArthur suggest the instantly claimed process of removing phosphate-type species from a phosphorus poisoned spent catalyst by washing with a water solution. See col. 1, line 58 to col. 2, line 25, col. 3, lines 16-27 of D'Aniello, Jr. and col. 1 and examples of McArthur. The taught spent catalyst would appear to be suitable for decomposing organophosphonate compounds.

Applicant's arguments filed May 16, 2007 have been fully considered but they are not persuasive.

Applicant argues that Lapidus cannot be read to teach regenerating a spent catalyst by simply washing with water, while ignoring the further steps taught by Lapidus.

However the instant claims do not exclude the taught "further steps."

Applicant argues that Obayashi teach away from washing the spent denitration catalyst with water by stating that the effectiveness of the cleaning fluid will be

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insufficient if the hydrofluoric acid concentration of the cleaning fluid is less than 0.3% by weight.

However the instant claims do not exclude the taught hydrofluoric acid concentration of the aqueous cleaning fluid.

Applicant argues that JP '942 cannot be read to teach regenerating a spent catalyst by simply washing with water, while ignoring the further taught steps of subjecting the spent catalyst to treatment with aqueous ammonia prior to washing with water and then baking the spent catalyst.

However the instant claims do not exclude the "further taught steps."

Applicant argues that JP '106 cannot be read to teach regenerating a spent catalyst by simply washing with water, while ignoring the further taught steps of subjecting the spent catalyst to treatment with steam or hot water prior to washing with water and then cooling the spent catalyst.

However the instant claims do not exclude the "further taught steps."

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven Bos whose telephone number is 571-272-1350. The examiner can normally be reached on M-F, 9AM to 6PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stan Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Steven Bos Primary Examiner Art Unit 1754